

## Core Skills Analysis

### Science

- The student successfully identified and labeled the anatomical structures of starfish, squid, and cow eye, enhancing their understanding of comparative anatomy.
- By engaging in dissection, the student developed practical skills in handling dissection tools and demonstrated increased dexterity and precision in their work.
- The activity allowed the student to observe and learn about the unique physiological adaptations of each organism, such as the squid's jet propulsion system and the cow eye's lens structure.
- Through the dissection process, the student acquired a greater appreciation for biodiversity and ecosystem interrelations, fostering curiosity about marine and terrestrial life.

### Tips

To enhance the student's learning experience, consider supplementing the dissection activity with videos or virtual dissections which illustrate the organ systems in more detail. Encourage the student to research each organism's habitat and role in the ecosystem to deepen their understanding of biological diversity. Hands-on experiments, such as simulating the function of the squid's siphon with water jets, could foster engagement. Field trips to aquariums or nature centers would also enrich their learning context.

### Book Recommendations

- [The Secrets of the Ocean Depths](#) by Gina B. Jones: An engaging introduction to marine biology focusing on various ocean creatures, their habitats, and anatomy.
- [Dissections: The Science Behind the Knife](#) by Laura Rose: This book explains the importance and methodology of dissections in understanding anatomy and biology.
- [Squid and Cuttlefish: The Soft-Bodied Cephalopods](#) by Elise Broach: A detailed look into the life and anatomy of squid and other cephalopods that captivates young readers.

### Learning Standards

- NGSS MS-LS1-3: Develop and use a model to describe the function of a cell as a whole and ways parts contribute to the whole.
- NGSS MS-LS1-4: Use arguments supported by evidence to support the claim that plants and animals have internal and external structures that function to help them survive in their environment.